

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

REDIMIX 9953 CUREBLEND

Version Number 1.0
Revision Date 06/08/2015

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1. PRODUCT AND COMPANY IDENTIFICATION

HEXPOL Compounding
14330 Kinsman Road, Burton, OH 44021

Telephone : Product Stewardship (440) 834-4644
Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Product name : REDIMIX 9953 CUREBLEND
Product code : AD30003889OC
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Di-2-benzothiazolyl disulfide	120-78-5	1 - 5
Tetramethylthiuram monosulfide	97-74-5	5 - 10
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	1 - 5
Quartz	14808-60-7	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Kaolin	1332-58-7	10 - 30
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	10 - 30
Zinc oxide	1314-13-2	10 - 30

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. In addition, heating or processing this material may result in product degradation or byproduct formation creating additional hazards. See Sections 8 and 11 for additional details.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Skin contact, Ingestion

Acute exposure

Inhalation : Irritating to respiratory system.
Ingestion : May be harmful if swallowed.
Eyes : Particulates, like other inert materials can be mechanically irritating.
Skin : Experience shows no unusual dermatitis hazard from routine handling.

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Chronic exposure : Refer to Section 11 for Toxicological Information.

Medical Conditions : None known.

Aggravated by Exposure:

4. FIRST AID MEASURES

- Inhalation** : Move to fresh air. When symptoms persist or in all cases of doubt seek medical advice.
- Ingestion** : Do not induce vomiting without medical advice. Seek medical attention if necessary.
- Eyes** : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.
- Skin** : Wash off with soap and plenty of water.

5. FIRE-FIGHTING MEASURES

- Flash point** : not applicable
- Flammable Limits**
- Upper explosion limit : not applicable
 - Lower explosion limit : not applicable
- Autoignition temperature** : No data available
- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide..
- Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
- Unusual Fire/Explosion Hazards** : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Avoid breathing dust. Avoid dust formation. Ensure adequate ventilation. Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
- Environmental precautions** : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
- Methods for cleaning up** : Clean up promptly by sweeping or vacuum. Do not create a powder cloud by using a brush or compressed air. Shovel into suitable container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

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7. HANDLING AND STORAGE

- Handling : Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid formation of dust and aerosols.
- Storage : Store in a cool dry place. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Employees using respirators must be properly trained. Employers must follow applicable regulations such as OSHA 29 CFR 1910.134.
- Eye/Face Protection : Safety glasses with side-shields
- Hand protection : Protective gloves. Refer to equipment supplier to ensure protection.
- Skin and body protection : Long sleeved clothing
- Additional Protective Measures : Safety shoes
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.
- Engineering measures : Adequate ventilation and/or appropriate respiratory protection may also be necessary to minimize employee exposure to processing vapors.

Exposure limit(s)

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Components	Value	Exposure time	Exposure type	List:
Kaolin	2 mg/m ³	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	10 mg/m ³	Time Weighted Average (TWA):		MX OEL
	20 mg/m ³	Short Term Exposure Limit (STEL):		MX OEL
	5 mg/m ³	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m ³	PEL:	Total dust.	OSHA Z1
Petroleum distillates, hydrotreated heavy naphthenic	500 ppm	PEL:		OSHA Z1
	2,000 mg/m ³			
Petroleum distillates, hydrotreated light naphthenic	500 ppm	PEL:		OSHA Z1
	2,000 mg/m ³			
	5 mg/m ³	Time Weighted Average (TWA):	Mist.	ACGIH
Quartz	0.025 mg/m ³	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	0.05 mg/m ³	Recommended exposure limit (REL):	Respirable dust.	NIOSH
	0.1 mg/m ³	Time Weighted Average (TWA):	Respirable dust.	OSHA Z1A
	0.1 mg/m ³	Time Weighted Average (TWA):	Respirable.	Z3
	0.3 mg/m ³	Time Weighted Average (TWA):	Total dust.	Z3
	0.1 mg/m ³	Time Weighted Average (TWA):		MX OEL
Titanium dioxide	10 mg/m ³	Time Weighted Average (TWA):		ACGIH
	15 mg/m ³	PEL:	Total dust.	OSHA Z1
	10 mg/m ³	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m ³	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m ³	Short Term Exposure Limit (STEL):	as Ti	MX OEL
Zinc oxide	2 mg/m ³	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	10 mg/m ³	Short Term Exposure Limit (STEL):	Respirable fraction.	ACGIH
	5 mg/m ³	Recommended exposure limit (REL):	Fume.	NIOSH
	5 mg/m ³	Recommended exposure limit (REL):	Dust.	NIOSH
	15 mg/m ³	Ceiling Limit Value and Time Period (if specified):	Dust.	NIOSH

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	10 mg/m ³	Short Term Exposure Limit (STEL):	Fume.	NIOSH
	5 mg/m ³	PEL:	Fume.	OSHA Z1
	5 mg/m ³	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m ³	PEL:	Total dust.	OSHA Z1
	5 mg/m ³	Time Weighted Average (TWA):	Fume.	OSHA Z1A
	5 mg/m ³	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	10 mg/m ³	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m ³	Short Term Exposure Limit (STEL):	Fume.	OSHA Z1A
	5 mg/m ³	Time Weighted Average (TWA):	Fume.	MX OEL
	10 mg/m ³	Time Weighted Average (TWA):	Dust.	MX OEL
	10 mg/m ³	Short Term Exposure Limit (STEL):	Fume.	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable
Appearance	: powder, Crumb, pellets	Specific Gravity	: Not determined
Color	: NO PIGMENT	Bulk density	: Not determined
Odour	: Very faint	Vapour pressure	: Not applicable
Melting point/range	: not applicable	Vapour density	: not applicable
Boiling Point:	: Not applicable	pH	: not applicable
Water solubility	: negligible		

10. STABILITY AND REACTIVITY

Stability	: Stable.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Heat, flames and sparks.
Incompatible Materials	: Strong acids and oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

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This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
120-78-5	Di-2-benzothiazolyl disulfide	Systemic effects	reproductive system.
97-74-5	Tetramethylthiuram monosulfide	Toxic	Refer to LC50 / LD50 Data on MSDS..
64742-53-6	Petroleum distillates, hydrotreated light naphthenic	Irritant	Eyes, Skin.
14808-60-7	Quartz	Systemic effects	Eyes, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
1332-58-7	Kaolin	Systemic effects	Respiratory system, digestive system.
64742-52-5	Petroleum distillates, hydrotreated heavy naphthenic	Irritant	Eyes, Skin.
1314-13-2	Zinc oxide	Systemic effects	Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
120-78-5	Di-2-benzothiazolyl disulfide	Dermal LD50	> 7,940 mg/kg	rabbit
97-74-5	Tetramethylthiuram monosulfide	Oral LD50	450 mg/kg	rat
1332-58-7	Kaolin	Oral LD50 Dermal LD50	5,000 mg/kg 5,000 mg/kg	rat rat
1314-13-2	Zinc oxide	LC50 LC50 Oral LD50 Oral LD50	2500 mg/m3 7,950 mg/kg 7,950 mg/kg	mouse mouse mouse mouse

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
14808-60-7	Quartz	no	1	no
13463-67-7	Titanium dioxide	no	2B	no

IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 - The component is known to be a human carcinogen.

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2 - The component is reasonably anticipated to be a human carcinogen.

Additional Health Hazard Information:

Quartz 14808-60-7 This material in its free releasable form may cause respiratory tract irritation. Long-term exposure may cause coughing, chest pain, diminished chest expansion and possibly silicosis, which is a scarring of the lungs.

12. ECOLOGICAL INFORMATION

Persistence and degradability : No data available
Environmental Toxicity : No data available
Bioaccumulation Potential : No data available
Additional advice : No data available

13. DISPOSAL CONSIDERATIONS

Product : Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

U.S. DOT Classification : Refer to specific regulation.
ICAO/IATA (air) : Refer to specific regulation.
IMO / IMDG (maritime) : Refer to specific regulation.

15. REGULATORY INFORMATION

US Regulations:

OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

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California Proposition : Not applicable
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SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight percent
ZINC COMPOUNDS	1314-13-2	10.00 - 30.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight percent	NPRI ID#
Zinc oxide	1314-13-2	10.00 - 30.00	

WHMIS Classification : D1B

WHMIS Ingredient Disclosure List

CAS-No.
14808-60-7
1314-13-2
120-78-5

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Listed
China IECS : Listed
Europe EINECS : Listed
Japan ENCS : Not determined

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Korea KECI : Listed

Philippines PICCS : Listed

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.